

Claims

What is claimed is:

1. A customizable aggregated floor controller comprising:

a plurality of individual foot controller modules, wherein each controller module of said plurality of individual foot controller modules generates an electrical signal in response to user operation of said individual foot controller module;

a mounting frame securing said plurality of individual foot controller modules in a reconfigurable mounting arrangement, wherein each foot controller module of said plurality of individual foot controller modules is readily positionable within any of a plurality of mounting locations of said mounting frame; and

a signal interface adapted to transmit interface signals to an external system, wherein said interface signals are generated in response to one or more of said electrical signals generated by said plurality of individual foot controller modules.

2. The floor controller according to claim 1, said floor controller further comprising:

an electrical power distribution infrastructure associated with said mounting frame, wherein said electrical power distribution infrastructure provides needed electrical power to at least one foot controller module of said plurality of individual foot controller modules via a separate electrical power interface associated with each of said at least one foot controller modules requiring electrical power.

3. The floor controller according to claim 1, wherein one of said plurality of individual foot controller modules comprises a foot switch.

4. The floor controller according to claim 1, wherein one of said plurality of individual foot controller modules comprises a foot pedal.

5. The floor controller according to claim 4, wherein said foot pedal is a multiple parameter foot pedal configured to simultaneously provide a plurality of adjustable parameters.

6. The floor controller according to claim 1, wherein at least one of said plurality of individual foot controller modules comprises a foot-operated tactile control pad.

7. The floor controller according to claim 6, wherein said foot-operated tactile control pad is a null/contact touchpad.

8. The floor controller according to claim 6, wherein said foot-operated tactile control pad includes a top side and a bottom side, said top side defining an area for operating said foot-operated tactile control pad, and wherein

a pressure sensor is coupled to said bottom side of said foot-operated tactile control pad, wherein said pressure sensor generates said electronic signal responsive to the relative pressure that a user contacts said foot-operated tactile control pad.

9. The floor controller according to claim 6, wherein said foot-operated tactile control pad includes a top side and a bottom side, said top side defining an area for operating said foot-operated tactile control pad, and wherein

an impact sensor is coupled to said bottom side of said foot-operated tactile control pad, wherein said impact sensor generates said electronic signal responsive to an impact received at said foot-operated tactile control pad.

10. The floor controller according to claim 6, wherein said foot-operated tactile control pad comprises a pressure-sensor array.

11. The floor controller according to claim 1, wherein at least one of said plurality of foot controller module elements comprises a strumpad.

12. The floor controller according to claim 1, wherein at least one of said plurality of individual foot controller modules comprises an impact sensor.

13. The floor controller according to claim 1, wherein at least one of said plurality of foot controller module elements comprises a plurality of organ-style bass pedals.

14. The floor controller according to claim 1, wherein said signal interface is coupled with said mounting frame.

15. A customizable aggregated floor controller comprising:
a plurality of individual foot controller modules, wherein each controller module of said plurality of individual foot controller modules generates an electrical signal in response to user operation of said individual foot controller module;

means for securing said plurality of individual foot controller modules in a reconfigurable mounting arrangement, wherein each foot controller module of said plurality of individual foot controller modules is readily positionable within any of a plurality of mounting locations of said mounting frame; and

means for transmitting interface signals to an external system, wherein said interface signals are generated in response to one or more of said electrical signals generated by said plurality of individual foot controller modules.

16. The floor controller according to claim 15, said floor controller further comprising:

means for distributing electrical power to at least one foot controller module of said plurality of individual foot controller modules via a separate electrical power interface associated with each of said at least one foot controller module.

17. The floor controller according to claim 15, wherein one of said plurality of individual foot controller modules comprises a foot-operated tactile control pad, and wherein said foot-operated tactile control pad comprises:

means for generating an electronic signal responsive to the relative pressure that a user contacts said foot-operated tactile control pad.

18. The floor controller according to claim 15, wherein one of said plurality of individual foot controller modules comprises a foot-operated tactile control pad, and wherein said foot-operated tactile control pad comprises:

means for generating an electronic signal responsive to an impact received at said foot-operated tactile control pad.